Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enrichment Questions: Attach this to graph paper.

1. Given points A(-8,2), B(-8,7), C(-5,7), and D(-5,2). Reflect the figure across the y-axis. Then reflect the reflected ABCD across the x-axis. What are the coordinates of the double-reflected figure?

2. Given the coordinates below, describe how figure TRS was transformed?

T (4,4) T’ (4,-4)

R (3,2) R’ (3,-2)

S (7,2) S’ (7,-2)

1. Graph the quadrilateral P (5,6), Q(6,4), R(3,2), S(2,4). If the polygon is transformed according to the rule (X´,Y´) = (x +2, y+1), where diagonals of the new polygon P´Q´R´S´? Is the figure PQRS congruent to figure P´Q´R´S´?
2. Graph Triangle ABC: A(4,9), B(1,3), C(8,3). Determine the area of the triangle. Give the coordinates for a triangle DEF that has an area twice that of Triangle ABC.
3. What transformations were performed to move triangle ABC to A´B´C´?

